### I. Program providers need to show credible evidence of Abstinence Education effectiveness to decision-makers.

A perception that abstinence education (AE) is ineffective and/or harmful can deprive program providers access to venues for their programs and funding to implement them. Some legislators and school boards have proposed eliminating AE because they believe **two common misconceptions**:

- a) That research has proved abstinence education is a failed strategy, and
- b) That AE reduces condom use by sexually active teens, putting them at greater risk for STDs and pregnancy.

#### II. How Do You Define "Effective"?

Whether a prevention strategy is viewed as effective is in part determined by how "effectiveness" is defined.

#### There are two types of effectiveness criteria:

- 1) Standards for the quality of the research evidence
- 2) Standards for the quality of the program outcomes

A prominent example of criteria for effectiveness is found in *What Works 2010: Curriculum-Based Programs That Help Prevent Teen Pregnancy*, by the National Campaign to Prevent Teen and Unplanned Pregnancy. According to *What Works 2010* (WW2010), 30 effective prevention programs have shown credible evidence that they "reduce teen pregnancy rates, increase contraception use, or delay the onset of sexual activity."

#### WW2010 used the following criteria for the quality of the research evidence:

- Included baseline and follow-up data (for at least 3 months)
- Measured impact on behavior
- Included at least 75 youth in both the treatment and the control groups
- Used sound statistical analyses
- Used an experimental or quasi-experimental evaluation design.

#### WW2010 used the following criteria for the quality of the program outcomes:

- Improvement rates of teen pregnancy, contraception, or sexual initiation
- For any subgroup of the intended population
- For at least 3 months after the program

Programs that produced these results were designated as effective by WW2010.

# III. Recommended Criteria for Program Effectiveness

This poster builds on the WW2010 definition of effectiveness. The proposed criteria are based on standards<sup>a</sup> used in the broader field of prevention program effectiveness.

### Criteria for the quality of the research evidence:

- Measured outcome behavior at baseline & at least 12 months after the program
- Included at least 75 youth in both the treatment and the control groups
- · Used a peer-reviewed experimental or quasi-experimental study
- Used sound statistical analyses, including controls for baseline differences

# Criteria for the quality of the program outcomes:

- Improved the behaviors or indicators shown to be most protective for teens: abstinence, consistent condom use, pregnancy, or STDs,
- Impacted the intended population (not only subgroups of the targeted audience),
- Produced effects that lasted at least 12 months after the program's end.

Programs that meet these criteria are more likely to be effective at protecting teens.

See Flay 8, et al.(2005), Standards of Evidence: Criteria for Efficacy, Effectiveness and Dissemination. Prevention Science, 6(3):151-175; the "Bluepfints Programs" at and <a href="http://www.micrado.edu/cspv/blueprints/criteria.html">http://www.micrado.edu/cspv/blueprints/criteria.html</a>; and http://www.micrado.edu/cspv/blueprints/criteria.html

# Demonstrating Credible Evidence of Effectiveness for Abstinence Education

by Irene H. Ericksen, M.S., Stan E. Weed, Ph.D., & Alfonso Osorio, Ph.D.

# IV. Applying Recommended Criteria of Effectiveness to What Works 2010 Programs

					Prog	ram Impacts and	Duration (Parentheses I	ndicate S	ubgroup Effects	Only)
Name of Program	Program Type	Setting	Teen Population Targeted	Authors Evaluator	Delayed Sexual Initiation/Increased Abstinence	Increased Consistent Condom Use	Reduced Teen Pregnancy	Reduced STDs	Increased Frequency of Condom Use	Increased Contraceptive Us
Aban Aya Youth Project	CSE	School & Community-based	AfricanAmerican	YES		1 0			(9maBO)	
Ali4You!	CSE	Alternative High School	Mixed race	YES	No		No		6ma./NOT 12mo.	No:
[Cuidate]	CSE	School & Community-based	Hispanic	YES	No	12 mo:less decline <sup>3</sup>			(12 moSO)	
Draw the Line / Respect the Line	CSE	School-based	Hispanic	YES	(End of prog-36mo-80)	0040.0400.0410.15.65	*		No	
Its Your GameKeep It Real	CSE	School-based	AfrAm&Hispanic	YES	12mo-after2yrProgram	8	9		8	No
Making a Difference! An Abstinence Program	Abstinence	School-based	AfricanAmerican	YES	3 mo/NOT6or12mo	No			12 mo.	30
Making Proud Choices!	CSE	School-based	AfricanAmerican	YES	No	3 mo.	9		12mo.	
Positive Prevention	CSE	School-based	AfricanAmerican	27	6 mo.	50000 8			No	
Promoting Health Among Teens!	Abstinence	School-based	AfricanAmerican	YES	24mo	No				10.00.00.00.00.00
Safer Choices	CSE	School-based	White	YES	(18 moHD)	- m- 5	7		18 mo.	(18 moBO)
Get Real About AIDS	CSE	School-based	White	??	No				<6 mo.	
Reasons of the Heart	Abstinence	School-based	Mixed race	NO.	12 mo.				3	
Reducing The Risk	CSE	School-based	White	YES	18 mo.				(SexinexpO:18mo)	
Seattle Social Development Program	SocialDev&RiskAvoid-NotSexEd	School-based	Mixed race	YES	10 years		(10 years-GO)	No	10 years	
Be Proud! Be Responsible!	CSE	Community/Clinic-based	<b>AfricanAmerican</b>	YES.	Nα				3 mo.	
Becoming a Responsible Teen!	CSE	Clinic-based	AfricanAmerican	YES	12mo		i i		12mo	
Children's Aid Society (CAS)-Carrera Program	YouthDev.&ClinicServices/CSE	Community-based	AfrAm&Hispanic	NO.	(at end of 3-yr prog-GO)	3	(at end of 3-yr prog-GO)*		No	(at end of 3-yr pros
Focus on Kids	CSE	Public Housing Development	AfricanAmerican	YES	No				36ma.	
Focus on Kids plus ImPACT	Parent&TeenProgram/CSE	Public Housing Development	AfricanAmerican	YES	3	18	24 mo. 5		6 mo/Nat12,18,24ma	
HIV RiskReduct-DetainedAdol(Keepin' It REALI)	Safer Sex	Juvenile Detention Facility	Mixed race	YES					12mo:No Decline	
HORIZONS HIV Intervention	Safer Sex	Clinic-based	AfrAm Females	YES	8	at12mo-for60days		12mo.	12ma	
Keepin' It R.E.A.L.!	Parent&TeenProgram/CSE	Community centers	AfricanAmerican	YES	No		The state of the s	5500/01	24 mo.	
Learn & Serve America	Service Learning-Not Sex Ed	Community agencies	Mixed race	22	8	8	(End of prog/8mo;NOT aft1yr)		8 8	
Multidimensional Treatment-Foster Care	YouthMentaring-NotSexEd	Foster homes	White	NO:	7		24mo			
Poder Latino: A Community AIDS Prev. Prog.	Condom Distribution/Promotion	Community & School-based	Hispanic	35	(End of prog/18mo, 80)2	9			No	
Reach for Health Community Youth Service	Service Learning/CSE	Community agencies	AfricanAmerican	27	8 mo.	5	8		£ 30 5	
REAL Men	Parent&TeenProgram/CSE	Community centers	AfricanAmerican	YES	6 mo/NOT12ma	12 ma.			12 mo.	
SiHLE (HIV Prevention Intervention)	CSE	Clinic-based	AfrAm Females	YES	F	at12 mo-for pasttimo	6 mo/NOT 12mo	12mo	12 mo.	
TeenHealthProject	CSE	Public Housing Development	Mixed race	YES	(12mo:SxlnexpO)				6 & 18ma	
Teen Outreach Program	Service Learning-Not Sex Ed	Community agencies	AfrAm Females	MO	(40.00 p	1	End of prog-9mo		2 3	

- ence or CCU, or reduced teen pregnancy or STDs, at least 12 months after the program
- = Not condom use education () = Indicates a subgroup effect

- Teen Pregnancy, National Campaign to Prevent Teen and Unplanned Pregnancy: Washington DC. 2 Sexual initiation for girls increased—a negative outcome.

#### Cells shaded green indicate outcomes that meet the Recommended Criteria

#### Summary of Research Evidence by Type of Program: School-based Programs<sup>1</sup>

What Works 2010: Curriculum-based Programs That Help Prevent Teen Pregnancy<sup>2</sup>

How many programs demonstrated	Type of Program <sup>3</sup>				
improvement on these outcomes for the target population (not a subgroup) at least 12 months after the program?	Abstinence Education (N=3)	Other Kinds of Sex Education (N=9)	Social Development/ Not Sex Ed (N=1)		
Abstinence	2	2	1		
Consistent Condom Use <sup>4</sup>	0	0	0		
Pregnancy	0	0	0		
STDs	0	0	0		
TOTAL PROGRAMS: Most protective outcomes*	2	2	1		
Condom Use Frequency	1	2	1		
Contraceptive Use Frequency	0	0	0		
TOTAL PROGRAMS: Any of above outcomes*	3	4	1		

# Summary of Research Evidence by Type of Program: Parent Training and Service-learning Programs

What Works 2010: Curriculum-based Programs That Help Prevent Teen Pregnancy

How many programs demonstrated improvement	Type of Program			
on these outcomes for the target population (not a subgroup) for at least 12 months after the program?	Parent-Teen Sex Education Programs <sup>2</sup> (N=3)	Service-learning Prevention Programs <sup>3</sup> (N=3)		
Note: Not all programs measured each of these outcomes:	TOTAL	TOTAL		
Abstinence	0	0		
Consistent Condom Use <sup>4</sup>	1	0		
Pregnancy	1	0		
STDs	0	0		
TOTAL # of PROGRAMS  - Most protective outcomes*	2	0		
Condom Use Frequency	2	0		
Contraceptive Use Frequency	0	0		
TOTAL # of PROGRAMS  - Any of above outcomes*	3	0		

# Summary of Research Evidence by Type of Program: Community or Clinic-based Programs

What Works 2010: Curriculum-based Programs That Help Prevent Teen Pregnancy<sup>2</sup>

How many programs demonstrated	Type of Program				
improvement on these outcomes for the target population (not a subgroup) for at least 12 months after the program?  Note: Not all programs measured each of these outcomes:	Clinic-based Sex Education Programs (N=4)	Community-based Sex Education (N=5)	Youth Development: Community & Clinic-based (N=1)		
Abstinence	1	0	0		
Consistent Condom Use <sup>3</sup>	2	0	0		
Pregnancy	0	1	0		
STDs	2	0	0		
TOTAL # of PROGRAMS:Most protective outcomes*	3	1	0		
Condom Use Frequency	3	3	0		
Contraceptive Use Frequency	0	0	0		
TOTAL # of PROGRAMS:  -Any of above outcomes*	3	4	0		

# Summary

Using these criteria, the evidence for the effectiveness of abstinence education appears to be similar to the evidence for the effectiveness of other types of pregnancy prevention programs.

#### V. Credible Evidence for Abstinence Education Effectiveness

#### Six Programs that Met the Criteria of Effectiveness:

Long-term Impact on Protective Behaviors for the Intended Population as shown by

Peer-reviewed Evaluations of Abstinence Education that used Experimental or Quasi-experimental Design Studies

Abstinence Program	Effects	
Promoting Health Among Teens!	* Reduced sexual initiation by 1/3, after 24 months	
	* Did not reduce teen condom use	
Reasons of the Heart	* Reduced rate of sexual initiation by ½, after 12 months	
Heritage Keepers	* Reduced rate of sexual initiation by ½, after 12 months	
Sex Can Wait	* Reduced sexual initiation after 18 months	
N-+ M N-+ N-	* Reduced sexual initiation after 36 months	
Not Me, Not Now	* Reduced teen pregnancy after 36 months	
Choosing the Best	* Reduced sexual initiation by ½, after 12 months	

#### Research shows that AE does not reduce teen condom use:

- 1. To date, no studies have shown that an AE program reduced teen condom use.
- 2. Three published studies have shown that AE does not reduce condom use by sexually active teens.a
- 3. A study of Making a Difference found it increased the frequency of teen condom use (although not a measure of consistent use), 12 months after the program.b
- 4. A CDC meta-analysis of sex education studies showed no reduction of teen condom use by AE programs.c
- Three studies show Af teens are not less likely to use a condom if they become sexually activer: Serven C. Martino, Ph.D., Marc N. Billiott, Ph.D., Rebeccal. Collins, Ph.D., David E. Kanouse, Ph.D., and E.

#### VI. Conclusions

- 1. Credible research evidence demonstrates that AE can produce substantial and sustained reductions in teen sexual initiation.
- 2. Research also shows that AE does not reduce teen condom use.
- 3. This evidence can help AE providers demonstrate to decisionmakers that AE is a viable prevention strategy for protecting youth from the negative consequences of teen sexual activity.